



# SEQUENCE LISTING

<110> Arkowitz, Robert A  
Nern, Peter MA

<120> NUCLEOTIDE SEQUENCES AND PROTEIN  
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<151> 1998-10-08

<150> 08/951,141

<151> 1997-10-15

<150> 09/529,106

<151> 2000-04-07

<150> US 09/732,180

<151> 2000-12-07

<150> US 60/169,699

<151> 1999-12-07

<150> PCT/GB98/03033

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Phe Ile Leu Gly Cys Lys Lys His Phe Ala Phe Asn Asp Glu Glu Leu  
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Phe Thr Ile Ser Asp Val Phe Ala Asn Ser Thr Ser Gln Leu Val Lys  
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Val Leu Glu Val Val Glu Thr Leu Met Asn Ser Ser  
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 Phe Ile Leu Gly Cys Lys Lys His Phe Ala Phe Asn Asp Glu Glu Leu  
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 Ile Thr Ser Glu Glu Leu Tyr Met Leu Phe Pro Asn Leu Gly Asp Ala  
 35 40 45  
 Ile Asp Phe Gln Arg Arg Phe Leu Ile Ser Leu Glu Ile Asn Ala Leu  
 50 55 60  
 Val Glu Pro Ser Lys Gln Arg Ile Gly Ala Leu Phe Met His Ser Lys  
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 His Phe Phe Lys Leu Tyr Glu Pro Trp Ser Ile Gly Gln Asn Ala Ala  
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 Ile Glu Phe Leu Ser Ser Thr Leu His Lys Met Arg Val Asp Glu Ser  
 100 105 110  
 Gln Arg Phe Ile Ile Asn Asn Lys Leu Glu Leu Gln Ser Phe Leu Tyr  
 115 120 125  
 Lys Pro Val Gln Arg Leu Cys Arg Tyr Pro Leu Leu Val Lys Glu Leu  
 130 135 140  
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 165 170 175  
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 Glu Phe Glu Val Tyr Leu Phe Glu Lys Ile Ile Ile Leu Phe Ser Glu  
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 245 250 255  
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 260 265 270  
 Ser Pro His His Ser Tyr His Lys Arg His Ser Asn Ser Ser Ser Ser  
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 305 310 315 320  
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 Leu Asn Ile Thr Trp Glu Ser Ile Lys Glu Gln Gly Asn Phe Leu Leu  
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<213> *Saccharomyces cerevisiae*

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&lt;210&gt; 11

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<213> *Saccharomyces cerevisiae*

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      20           25           30
Glu Ile Gln Asn Lys Ile Glu Ala Ala Arg Gln Glu Ser Lys Gln Leu
      35           40           45
His Ala Gln Ile Asn Lys Ala Lys His Lys Ile Gln Asp Ala Ser Leu
      50           55           60
Phe Gln Met Ala Asn Lys Val Thr Ser Leu Thr Lys Asn Lys Ile Asn
      65           70           75           80
Leu Lys Pro Asn Ile Val Leu Lys Gly His Asn Asn Lys Ile Ser Asp
      85           90           95
Phe Arg Trp Ser Arg Asp Ser Lys Arg Ile Leu Ser Ala Ser Gln Asp
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Gly Phe Met Leu Ile Trp Asp Ser Ala Ser Gly Leu Lys Gln Asn Ala
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Ile Pro Leu Asp Ser Gln Trp Val Leu Ser Cys Ala Ile Ser Pro Ser
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| 145 |     | 150 |     | 155 |     | 160 |     |     |     |     |     |     |     |     |     |
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|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Lys | Gly | His | Thr | Cys | Tyr | Ile | Ser | Asp | Ile | Glu | Phe | Thr | Asp | Asn | Ala |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| His | Ile | Leu | Thr | Ala | Ser | Gly | Asp | Met | Thr | Cys | Ala | Leu | Trp | Asp | Ile |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Pro | Lys | Ala | Lys | Arg | Val | Arg | Glu | Tyr | Ser | Asp | His | Leu | Gly | Asp | Val |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Leu | Ala | Leu | Ala | Ile | Pro | Glu | Glu | Pro | Asn | Leu | Glu | Asn | Ser | Ser | Asn |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Thr | Phe | Ala | Ser | Cys | Gly | Ser | Asp | Gly | Tyr | Thr | Tyr | Ile | Trp | Asp | Ser |
|     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |     |
| Arg | Ser | Pro | Ser | Ala | Val | Gln | Ser | Phe | Tyr | Val | Asn | Asp | Ser | Asp | Ile |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     | 270 |     |     |     |
| Asn | Ala | Leu | Arg | Phe | Phe | Lys | Asp | Gly | Met | Ser | Ile | Val | Ala | Gly | Ser |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Asp | Asn | Gly | Ala | Ile | Asn | Met | Tyr | Asp | Leu | Arg | Ser | Asp | Cys | Ser | Ile |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Ala | Thr | Phe | Ser | Leu | Phe | Arg | Gly | Tyr | Glu | Glu | Arg | Thr | Pro | Thr | Pro |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Thr | Tyr | Met | Ala | Ala | Asn | Met | Glu | Tyr | Asn | Thr | Ala | Gln | Ser | Pro | Gln |
|     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |     |
| Thr | Leu | Lys | Ser | Thr | Ser | Ser | Ser | Tyr | Leu | Asp | Asn | Gln | Gly | Val | Val |
|     |     | 340 |     |     |     |     |     | 345 |     |     |     | 350 |     |     |     |
| Ser | Leu | Asp | Phe | Ser | Ala | Ser | Gly | Arg | Leu | Met | Tyr | Ser | Cys | Tyr | Thr |
|     | 355 |     |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Asp | Ile | Gly | Cys | Val | Val | Trp | Asp | Val | Leu | Lys | Gly | Glu | Ile | Val | Gly |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Lys | Leu | Glu | Gly | His | Gly | Gly | Arg | Val | Thr | Gly | Val | Arg | Ser | Ser | Pro |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Asp | Gly | Leu | Ala | Val | Cys | Thr | Gly | Ser | Trp | Asp | Ser | Thr | Met | Lys | Ile |
|     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |     |
| Trp | Ser | Pro | Gly | Tyr | Gln |     |     |     |     |     |     |     |     |     |     |
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Glu Ile Gln Asn Lys Ile Glu Ala Ala Arg Gln Glu Ser Lys Gln Leu
          35          40          45
His Ala Gln Ile Asn Lys Ala Lys His Lys Ile Gln Asp Ala Ser Leu
          50          55          60
Phe Gln Met Ala Asn Lys Val Thr Ser Leu Thr Lys Asn Lys Ile Asn
65          70          75          80
Leu Lys Pro Asn Ile Val Leu Lys Gly His Asn Asn Lys Ile Ser Asp
          85          90          95
Phe Arg Trp Ser Arg Asp Ser Lys Arg Ile Leu Ser Ala Ser Gln Asp
          100          105          110
Gly Phe Met Leu Ile Trp Asp Ser Ala Ser Gly Leu Lys Gln Asn Ala
          115          120          125
Ile Pro Leu Asp Ser Gln Trp Val Leu Ser Cys Ala Ile Ser Pro Ser
          130          135          140
Ser Thr Leu Val Ala Ser Ala Gly Leu Asn Asn Asn Cys Thr Ile Tyr
145          150          155          160
Arg Val Ser Lys Glu Asn Arg Val Ala Gln Asn Val Ala Ser Ile Phe
          165          170          175
Lys Gly His Thr Cys Tyr Ile Ser Asp Ile Glu Phe Thr Asp Asn Ala
          180          185          190
His Ile Leu Thr Ala Ser Gly Asp Met Thr Cys Ala Leu Trp Asp Ile
          195          200          205
Pro Lys Ala Lys Arg Val Arg Gly Tyr Ser Asp His Leu Gly Asp Val
          210          215          220
Leu Ala Leu Ala Ile Pro Glu Glu Pro Asn Leu Glu Asn Ser Ser Asn
225          230          235          240
Thr Phe Ala Ser Cys Gly Ser Asp Gly Tyr Thr Tyr Ile Trp Asp Ser
          245          250          255
Arg Ser Pro Ser Ala Val Gln Ser Phe Tyr Val Asn Asp Ser Asp Ile
          260          265          270
Asn Ala Leu Arg Phe Phe Lys Asp Gly Met Ser Ile Val Ala Gly Ser
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| Asp | Asn | Gly | Ala | Ile | Asn | Met | Tyr | Asp | Leu | Arg | Ser | Asp | Cys | Ser | Ile |
| 290 |     |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |     |
| Ala | Thr | Phe | Ser | Leu | Phe | Arg | Gly | Tyr | Glu | Glu | Arg | Thr | Pro | Thr | Pro |
| 305 |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     |     | 320 |
| Thr | Tyr | Met | Ala | Ala | Asn | Met | Glu | Tyr | Asn | Thr | Ala | Gln | Ser | Pro | Gln |
|     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |     |
| Thr | Leu | Lys | Ser | Thr | Ser | Ser | Ser | Tyr | Leu | Asp | Asn | Gln | Gly | Val | Val |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |     |
| Ser | Leu | Asp | Phe | Ser | Ala | Ser | Gly | Arg | Leu | Met | Tyr | Ser | Cys | Tyr | Thr |
|     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |     |
| Asp | Ile | Gly | Cys | Val | Val | Trp | Asp | Val | Leu | Lys | Gly | Glu | Ile | Val | Gly |
| 370 |     |     |     |     | 375 |     |     |     |     |     | 380 |     |     |     |     |
| Lys | Leu | Glu | Gly | His | Gly | Gly | Arg | Val | Thr | Gly | Val | Arg | Ser | Ser | Pro |
| 385 |     |     |     | 390 |     |     |     |     |     | 395 |     |     |     |     | 400 |
| Asp | Gly | Leu | Ala | Val | Cys | Thr | Gly | Ser | Trp | Asp | Ser | Thr | Met | Lys | Ile |
|     |     |     | 405 |     |     |     |     | 410 |     |     |     |     |     | 415 |     |
| Trp | Ser | Pro | Gly | Tyr | Gln |     |     |     |     |     |     |     |     |     |     |
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<400> 14

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| gatgcaagct  | tattccagat | ggccaacaaa | gttacttcgt | tgacccaaaaa | taagatcaac | 240  |
| ttaaagccaa  | atatcgtggt | gaaaggccat | aataataaaa | tctcagattt  | tcggtggagt | 300  |
| cgagattcaa  | aacgtatttt | gagtgcaggt | caagatggct | ttatgcttat  | atgggacagt | 360  |
| gcttcaggtt  | taaaacagaa | cgctattcca | ttagattctc | aatgggttct  | ttcctgcgct | 420  |
| atttcgccat  | cgagtacttt | ggtagcaagc | gcaggattaa | acaataactg  | taccatttat | 480  |
| agagtttcga  | aagaaaacag | agtagcgcaa | aacgttgcgt | caattttcaa  | aggacatact | 540  |
| tgctatatatt | ctgacattga | atttacagat | aacgcacata | tattgacagc  | aagtggggat | 600  |
| atgacatgtg  | ccttgtggga | tataccgaaa | gcaaagaggg | tgagagaata  | ttctgaccat | 660  |
| ttaggtgatg  | ttttggcatt | agctattcct | gaagagccaa | acttagaaaa  | ttcttcgaac | 720  |
| acattcgcta  | gctgtggatc | agacgggtat | acttacatat | gggatagcag  | atctccgtcc | 780  |
| gctgtacaaa  | gcttttacgt | taacgatagt | gatattaatg | cacttcgttt  | tttcaaagac | 840  |
| gggatgtcga  | ttgttgcaag | aagtgcacat | ggtgcgataa | atatgtatga  | tttaaggtcg | 900  |
| gactgttcta  | ttgtactttt | ttctcttttt | cgaggttatg | aagaacgtac  | ccctacccct | 960  |
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| agattgatgt  | actcatgcta | tacagacatt | ggttgtgttg | tgtgggatgt  | attaaaagga | 1140 |
| gagattgttg  | gaaaattaga | aggtcatggt | ggcagagtca | ctggtgtgcg  | ctcgagtcca | 1200 |
| gatgggttag  | ctgtatgtac | aggttcattg | gactcaacca | tgaaaatatg  | gtctccaggt | 1260 |
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<220>

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<400> 15

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| Met | Ala | His | Gln | Met | Asp | Ser | Ile | Thr | Tyr | Ser | Asn | Asn | Val | Thr | Gln |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gln | Tyr | Ile | Gln | Pro | Gln | Ser | Leu | Gln | Asp | Ile | Ser | Ala | Val | Glu | Glu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Glu | Ile | Gln | Asn | Lys | Ile | Glu | Ala | Ala | Arg | Gln | Glu | Ser | Lys | Gln | Leu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| His | Ala | Gln | Ile | Asn | Lys | Ala | Lys | His | Lys | Ile | Gln | Asp | Ala | Ser | Leu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Phe | Gln | Met | Ala | Asn | Lys | Val | Thr | Ser | Leu | Thr | Lys | Asn | Lys | Ile | Asn |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Leu | Lys | Pro | Asn | Ile | Val | Leu | Lys | Gly | His | Asn | Asn | Lys | Ile | Ser | Asp |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Phe | Arg | Trp | Ser | Arg | Asp | Ser | Lys | Arg | Ile | Leu | Ser | Ala | Ser | Gln | Asp |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Gly | Phe | Met | Leu | Ile | Trp | Asp | Ser | Ala | Ser | Gly | Leu | Lys | Gln | Asn | Ala |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Ile | Pro | Leu | Asp | Ser | Gln | Trp | Val | Leu | Ser | Cys | Ala | Ile | Ser | Pro | Ser |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ser | Thr | Leu | Val | Ala | Ser | Ala | Gly | Leu | Asn | Asn | Asn | Cys | Thr | Ile | Tyr |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Arg | Val | Ser | Lys | Glu | Asn | Arg | Val | Ala | Gln | Asn | Val | Ala | Ser | Ile | Phe |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Lys | Gly | His | Thr | Cys | Tyr | Ile | Ser | Asp | Ile | Glu | Phe | Thr | Asp | Asn | Ala |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| His | Ile | Leu | Thr | Ala | Ser | Gly | Asp | Met | Thr | Cys | Ala | Leu | Trp | Asp | Ile |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Pro | Lys | Ala | Lys | Arg | Val | Arg | Glu | Tyr | Ser | Asp | His | Leu | Gly | Asp | Val |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Leu | Ala | Leu | Ala | Ile | Pro | Glu | Glu | Pro | Asn | Leu | Glu | Asn | Ser | Ser | Asn |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Thr | Phe | Ala | Ser | Cys | Gly | Ser | Asp | Gly | Tyr | Thr | Tyr | Ile | Trp | Asp | Ser |
|     |     |     | 245 |     |     |     |     | 250 |     |     |     |     |     | 255 |     |
| Arg | Ser | Pro | Ser | Ala | Val | Gln | Ser | Phe | Tyr | Val | Asn | Asp | Ser | Asp | Ile |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Asn | Ala | Leu | Arg | Phe | Phe | Lys | Asp | Gly | Met | Ser | Ile | Val | Ala | Gly | Ser |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Asp | Asn | Gly | Ala | Ile | Asn | Met | Tyr | Asp | Leu | Arg | Ser | Asp | Cys | Ser | Ile |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Ala | Thr | Phe | Ser | Leu | Phe | Arg | Gly | Tyr | Glu | Glu | Arg | Thr | Pro | Thr | Pro |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Thr | Tyr | Met | Ala | Ala | Asn | Met | Glu | Tyr | Asn | Thr | Ala | Gln | Ser | Pro | Gln |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Thr | Leu | Lys | Ser | Thr | Ser | Ser | Ser | Tyr | Leu | Asp | Asn | Gln | Gly | Ala | Val |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Ser | Leu | Asp | Phe | Ser | Ala | Ser | Gly | Arg | Leu | Met | Tyr | Ser | Cys | Tyr | Thr |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Asp | Ile | Gly | Cys | Val | Val | Trp | Asp | Val | Leu | Lys | Gly | Glu | Ile | Val | Gly |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Lys | Leu | Glu | Gly | His | Gly | Gly | Arg | Val | Thr | Gly | Val | Arg | Ser | Ser | Pro |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Asp | Gly | Leu | Ala | Val | Cys | Thr | Gly | Ser | Trp | Asp | Ser | Thr | Met | Lys | Ile |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | 415 |     |
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<211> 844

<212> PRT

<213> Candida albicans

<400> 24

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Ser Gly Pro Val Asn Ile Asn Asn Phe Asn Lys Pro Ser Thr Pro Lys
35          40          45
Asp His Leu Phe Tyr Arg Cys Glu Ser Leu Lys Arg Lys Leu Gln Lys
50          55          60
Ile Pro Gly Met Glu Pro Phe Leu Asn Gln Ala Phe Asn Gln Ala Glu
65          70          75          80
Gln Leu Ser Glu Gln Gln Ala Leu Ala Leu Ala Gln Glu Arg Ser Asn
85          90          95
Gly Asn Gly His Ser Asn Gly Lys Arg His Gln Ser Leu Asp Gly Ala
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Met Asn Arg Leu Ser Val Gly Ser Asp Ser Ser Ser Ile Gln Gly Ser
115         120         125
Leu Thr Arg Met Ala Thr Asn Ala Ser Thr Ser Ser Leu Ile Ser Gly

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 130 |     |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |  |
| Met | Pro | Asn | Asn | Asn | Thr | Leu | Phe | Thr | Phe | Thr | Ala | Gly | Val | Leu | Pro |  |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |
| Ala | Asn | Ile | Ser | Val | Asp | Pro | Ala | Thr | His | Leu | Trp | Lys | Leu | Phe | Gln |  |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |
| Gln | Gly | Ala | Pro | Phe | Cys | Val | Leu | Ile | Asn | His | Ile | Leu | Pro | Asp | Ser |  |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |
| Gln | Ile | Pro | Val | Val | Ser | Ser | Asp | Asp | Leu | Arg | Ile | Cys | Lys | Lys | Ser |  |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |  |
| Val | Tyr | Asp | Phe | Leu | Ile | Ala | Val | Lys | Thr | Gln | Leu | Asn | Phe | Asp | Asp |  |
|     | 210 |     |     |     |     | 215 |     |     |     | 220 |     |     |     |     |     |  |
| Glu | Asn | Met | Phe | Thr | Ile | Ser | Asn | Val | Phe | Ser | Asp | Asn | Ala | Gln | Asp |  |
| 225 |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     |     | 240 |  |
| Leu | Ile | Lys | Ile | Ile | Asp | Val | Ile | Asn | Lys | Leu | Leu | Ala | Glu | Tyr | Ser |  |
|     |     |     | 245 |     |     |     |     | 250 |     |     |     |     |     | 255 |     |  |
| Asp | Ala | Ser | Asp | Ser | Gly | Gly | Gly | Asp | Glu | Asp | Val | Asn | Met | Asp | Val |  |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     | 270 |     |     |     |  |
| Gln | Ile | Thr | Asp | Glu | Arg | Ser | Lys | Val | Phe | Arg | Glu | Ile | Ile | Glu | Thr |  |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |  |
| Glu | Arg | Lys | Tyr | Val | Gln | Asp | Leu | Glu | Leu | Met | Cys | Lys | Tyr | Arg | Gln |  |
|     | 290 |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |     |  |
| Asp | Leu | Ile | Glu | Ala | Glu | Asn | Leu | Ser | Ser | Glu | Gln | Ile | His | Leu | Leu |  |
| 305 |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     |     | 320 |  |
| Phe | Pro | Asn | Leu | Asn | Glu | Ile | Ile | Asp | Phe | Gln | Arg | Arg | Phe | Leu | Asn |  |
|     |     |     | 325 |     |     |     |     | 330 |     |     |     |     |     | 335 |     |  |
| Gly | Leu | Glu | Cys | Asn | Ile | Asn | Val | Pro | Ile | Arg | Tyr | Gln | Arg | Ile | Gly |  |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |     |  |
| Ser | Val | Phe | Ile | His | Ala | Ser | Leu | Gly | Pro | Phe | Asn | Ala | Tyr | Glu | Pro |  |
|     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |     |  |
| Trp | Thr | Ile | Gly | Gln | Leu | Thr | Ala | Ile | Asp | Leu | Ile | Asn | Lys | Glu | Ala |  |
|     | 370 |     |     |     | 375 |     |     |     |     |     | 380 |     |     |     |     |  |
| Ala | Asn | Leu | Lys | Lys | Ser | Ser | Ser | Leu | Leu | Asp | Pro | Gly | Phe | Glu | Leu |  |
| 385 |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     |     | 400 |  |
| Gln | Ser | Tyr | Ile | Leu | Lys | Pro | Ile | Gln | Arg | Leu | Cys | Lys | Tyr | Pro | Leu |  |
|     |     |     | 405 |     |     |     |     | 410 |     |     |     |     |     | 415 |     |  |
| Leu | Leu | Lys | Glu | Leu | Ile | Lys | Thr | Ser | Pro | Glu | Tyr | Ser | Lys | Gln | Asp |  |
|     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |  |
| Pro | His | Gly | Ser | Ser | Ser | Ser | Thr | Ser | Phe | Asn | Glu | Leu | Leu | Val | Ala |  |
|     | 435 |     |     |     |     |     | 440 |     |     |     | 445 |     |     |     |     |  |
| Lys | Thr | Ala | Met | Lys | Glu | Leu | Ala | Asn | Gln | Val | Asn | Glu | Ala | Gln | Arg |  |
|     | 450 |     |     |     | 455 |     |     |     | 460 |     |     |     |     |     |     |  |
| Arg | Ala | Glu | Asn | Ile | Glu | His | Leu | Glu | Lys | Leu | Lys | Glu | Arg | Val | Gly |  |
| 465 |     |     |     | 470 |     |     |     | 475 |     |     |     |     |     |     | 480 |  |
| Asn | Trp | Arg | Gly | Phe | Asn | Leu | Asp | Ala | Gln | Gly | Glu | Leu | Leu | Phe | His |  |
|     |     |     | 485 |     |     |     |     | 490 |     |     |     |     |     | 495 |     |  |
| Gly | Gln | Val | Gly | Val | Lys | Asp | Ala | Glu | Asn | Glu | Lys | Glu | Tyr | Val | Ala |  |
|     |     | 500 |     |     |     |     |     | 505 |     |     |     |     | 510 |     |     |  |
| Tyr | Leu | Phe | Glu | Lys | Ile | Val | Phe | Phe | Phe | Thr | Glu | Ile | Asp | Asp | Thr |  |
|     | 515 |     |     |     |     | 520 |     |     |     |     |     | 525 |     |     |     |  |
| Lys | Lys | Ser | Asp | Lys | Gln | Glu | Lys | Lys | Ser | Lys | Phe | Ser | Thr | Arg | Lys |  |
|     | 530 |     |     |     | 535 |     |     |     |     |     | 540 |     |     |     |     |  |
| Arg | Ser | Thr | Ser | Ser | Asn | Leu | Ser | Ser | Ser | Thr | Thr | Asn | Leu | Leu | Glu |  |
| 545 |     |     |     | 550 |     |     |     |     | 555 |     |     |     |     |     | 560 |  |
| Ser | Ile | Asn | Asn | Ser | Arg | Lys | Asp | Asn | Thr | Leu | Pro | Leu | Glu | Leu | Lys |  |
|     |     |     | 565 |     |     |     |     | 570 |     |     |     |     |     | 575 |     |  |
| Gly | Arg | Val | Tyr | Ile | Ser | Glu | Ile | Tyr | Asn | Ile | Ser | Ala | Pro | Asn | Thr |  |
|     |     | 580 |     |     |     |     |     | 585 |     |     |     |     | 590 |     |     |  |

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 Thr Ser Asn Leu Val Ala Asp Asp Val Asn Ile Ser Arg Leu Arg Tyr  
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 Gly Leu Val Leu Asp Met Leu Thr Ser Glu Asp Phe Tyr Gln Thr Ser  
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 Gln Leu Ala Tyr Gln Ser Ser Glu Val Leu Ser Glu Arg Gln Ser Leu  
 65 70 75 80  
 Leu Leu Ser Gln Lys Gln His Gln Glu Leu Leu Lys Ser Asn Gly Ala  
 85 90 95  
 Asn Arg Asp Ser Ser Asp Leu Ala Pro Thr Leu Arg Ser Ser Ser Ile  
 100 105 110  
 Ser Thr Ala Thr Ser Leu Met Ser Met Glu Gly Ile Ser Tyr Thr Asn  
 115 120 125  
 Ser Asn Pro Ser Ala Thr Pro Asn Met Glu Asp Thr Leu Leu Thr Phe  
 130 135 140  
 Ser Met Gly Ile Leu Pro Ile Thr Met Asp Cys Asp Pro Val Thr Gln  
 145 150 155 160  
 Leu Ser Gln Leu Phe Gln Gln Gly Ala Pro Leu Cys Ile Leu Phe Asn  
 165 170 175  
 Ser Val Lys Pro Gln Phe Lys Leu Pro Val Ile Ala Ser Asp Asp Leu  
 180 185 190  
 Lys Val Cys Lys Lys Ser Ile Tyr Asp Phe Ile Leu Gly Cys Lys Lys  
 195 200 205  
 His Phe Ala Phe Asn Asp Glu Glu Leu Phe Thr Ile Ser Asp Val Phe  
 210 215 220  
 Ala Asn Ser Thr Ser Gln Leu Val Lys Val Leu Glu Val Val Glu Thr  
 225 230 235 240  
 Leu Met Asn Ser Ser Pro Thr Ile Phe Pro Ser Lys Ser Lys Thr Gln  
 245 250 255  
 Gln Ile Met Asn Ala Glu Asn Gln His Arg His Gln Pro Gln Gln Ser  
 260 265 270  
 Ser Lys Lys His Asn Glu Tyr Val Lys Ile Ile Lys Glu Phe Val Ala  
 275 280 285  
 Thr Glu Arg Lys Tyr Val His Asp Leu Glu Ile Leu Asp Lys Tyr Arg  
 290 295 300  
 Gln Gln Leu Leu Asp Ser Asn Leu Ile Thr Ser Glu Glu Leu Tyr Met  
 305 310 315 320  
 Leu Phe Pro Asn Leu Gly Asp Ala Ile Asp Phe Gln Arg Arg Phe Leu  
 325 330 335  
 Ile Ser Leu Glu Ile Asn Ala Leu Val Glu Pro Ser Lys Gln Arg Ile  
 340 345 350  
 Gly Ala Leu Phe Met His Ser Lys His Phe Phe Lys Leu Tyr Glu Pro  
 355 360 365  
 Trp Ser Ile Gly Gln Asn Ala Ala Ile Glu Phe Leu Ser Ser Thr Leu  
 370 375 380  
 His Lys Met Arg Val Asp Glu Ser Gln Arg Phe Ile Ile Asn Asn Lys  
 385 390 395 400

Leu Glu Leu Gln Ser Phe Leu Tyr Lys Pro Val Gln Arg Leu Cys Arg  
 405 410 415  
 Tyr Pro Leu Leu Val Lys Glu Leu Leu Ala Glu Ser Ser Asp Asp Asn  
 420 425 430  
 Asn Thr Lys Glu Leu Glu Ala Ala Leu Asp Ile Ser Lys Asn Ile Ala  
 435 440 445  
 Arg Ser Ile Asn Glu Asn Gln Arg Arg Thr Glu Asn His Gln Val Val  
 450 455 460  
 Lys Lys Leu Tyr Gly Arg Val Val Asn Trp Lys Gly Tyr Arg Ile Ser  
 465 470 475 480  
 Lys Phe Gly Glu Leu Leu Tyr Phe Asp Lys Val Phe Ile Ser Thr Thr  
 485 490 495  
 Asn Ser Ser Ser Glu Pro Glu Arg Glu Phe Glu Val Tyr Leu Phe Glu  
 500 505 510  
 Lys Ile Ile Ile Leu Phe Ser Glu Val Val Thr Lys Lys Ser Ala Ser  
 515 520 525  
 Ser Leu Ile Leu Lys Lys Lys Ser Ser Thr Ser Ala Ser Ile Ser Ala  
 530 535 540  
 Ser Asn Ile Thr Asp Asn Asn Gly Ser Pro His His Ser Tyr His Lys  
 545 550 555 560  
 Arg His Ser Asn Ser Ser Ser Ser Asn Asn Ile His Leu Ser Ser Ser  
 565 570 575  
 Ser Ala Ala Ala Ile Ile His Ser Ser Thr Asn Ser Ser Asp Asn Asn  
 580 585 590  
 Ser Asn Asn Ser Ser Ser Ser Ser Leu Phe Lys Leu Ser Ala Asn Glu  
 595 600 605  
 Pro Lys Leu Asp Leu Arg Gly Arg Ile Met Ile Met Asn Leu Asn Gln  
 610 615 620  
 Ile Ile Pro Gln Asn Asn Arg Ser Leu Asn Ile Thr Trp Glu Ser Ile  
 625 630 635 640  
 Lys Glu Gln Gly Asn Phe Leu Leu Lys Phe Lys Asn Glu Glu Thr Arg  
 645 650 655  
 Asp Asn Trp Ser Ser Cys Leu Gln Gln Leu Ile His Asp Leu Lys Asn  
 660 665 670  
 Glu Gln Phe Lys Ala Arg His His Ser Ser Thr Ser Thr Thr Ser Ser  
 675 680 685  
 Thr Ala Lys Ser Ser Ser Met Met Ser Pro Thr Thr Thr Met Asn Thr  
 690 695 700  
 Pro Asn His His Asn Ser Arg Gln Thr His Asp Ser Met Ala Ser Phe  
 705 710 715 720  
 Ser Ser Ser His Met Lys Arg Val Ser Asp Val Leu Pro Lys Arg Arg  
 725 730 735  
 Thr Thr Ser Ser Ser Phe Glu Ser Glu Ile Lys Ser Ile Ser Glu Asn  
 740 745 750  
 Phe Lys Asn Ser Ile Pro Glu Ser Ser Ile Leu Phe Arg Ile Ser Tyr  
 755 760 765  
 Asn Asn Asn Ser Asn Asn Thr Ser Ser Ser Glu Ile Phe Thr Leu Leu  
 770 775 780  
 Val Glu Lys Val Trp Asn Phe Asp Asp Leu Ile Met Ala Ile Asn Ser  
 785 790 795 800  
 Lys Ile Ser Asn Thr His Asn Asn Asn Ile Ser Pro Ile Thr Lys Ile  
 805 810 815  
 Lys Tyr Gln Asp Glu Asp Gly Asp Phe Val Val Leu Gly Ser Asp Glu  
 820 825 830  
 Asp Trp Asn Val Ala Lys Glu Met Leu Ala Glu Asn Asn Glu Lys Phe  
 835 840 845  
 Leu Asn Ile Arg Leu Tyr



850

<210> 28  
 <211> 837  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<400> 28  
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 Asp Ser Leu Phe His Ile Cys Ala Asn Ile Arg Lys Arg Leu Glu Val  
 35 40 45  
 Leu Pro Gln Leu Lys Pro Phe Leu Gln Leu Ala Tyr Gln Ser Ser Glu  
 50 55 60  
 Val Leu Ser Glu Arg Gln Ser Leu Leu Leu Ser Gln Lys Gln His Gln  
 65 70 75 80  
 Glu Leu Leu Lys Ser Asn Gly Ala Asn Arg Asp Ser Ser Asp Leu Ala  
 85 90 95  
 Pro Thr Leu Arg Ser Ser Ser Ile Ser Thr Ala Thr Ser Leu Met Ser  
 100 105 110  
 Met Glu Gly Ile Ser Tyr Thr Asn Ser Asn Pro Ser Ala Thr Pro Asn  
 115 120 125  
 Met Glu Asp Thr Leu Leu Thr Phe Ser Met Gly Ile Leu Pro Ile Thr  
 130 135 140  
 Met Asp Cys Asp Pro Val Thr Gln Leu Ser Gln Leu Phe Gln Gln Gly  
 145 150 155 160  
 Ala Pro Leu Cys Ile Leu Phe Asn Ser Val Lys Pro Gln Phe Lys Leu  
 165 170 175  
 Pro Val Ile Ala Ser Asp Asp Leu Lys Val Cys Lys Lys Ser Ile Tyr  
 180 185 190  
 Asp Phe Ile Leu Gly Cys Lys Lys His Phe Ala Phe Asn Asp Glu Glu  
 195 200 205  
 Leu Phe Thr Ile Ser Asp Val Phe Ala Asn Ser Thr Ser Gln Leu Val  
 210 215 220  
 Lys Val Leu Glu Val Val Glu Thr Leu Met Asn Ser Ser Pro Thr Ile  
 225 230 235 240  
 Phe Pro Ser Lys Ser Lys Thr Gln Gln Ile Met Asn Ala Glu Asn Gln  
 245 250 255  
 His Arg His Gln Pro Gln Gln Ser Ser Lys Lys His Asn Glu Tyr Val  
 260 265 270  
 Lys Ile Ile Lys Glu Phe Val Ala Thr Glu Arg Lys Tyr Val His Asp  
 275 280 285  
 Leu Glu Ile Leu Asp Lys Tyr Arg Gln Gln Leu Leu Asp Ser Asn Leu  
 290 295 300  
 Ile Thr Ser Glu Glu Leu Tyr Met Leu Phe Pro Asn Leu Gly Asp Ala  
 305 310 315 320  
 Ile Asp Phe Gln Arg Arg Phe Leu Ile Ser Leu Glu Ile Asn Ala Leu  
 325 330 335  
 Val Glu Pro Ser Lys Gln Arg Ile Gly Ala Leu Phe Met His Ser Lys  
 340 345 350  
 His Phe Phe Lys Leu Tyr Glu Pro Trp Ser Ile Gly Gln Asn Ala Ala  
 355 360 365  
 Ile Glu Phe Leu Ser Ser Thr Leu His Lys Met Arg Val Asp Glu Ser  
 370 375 380

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Arg | Phe | Ile | Ile | Asn | Asn | Lys | Leu | Glu | Leu | Gln | Ser | Phe | Leu | Tyr |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Lys | Pro | Val | Gln | Arg | Leu | Cys | Arg | Tyr | Pro | Leu | Leu | Val | Lys | Glu | Leu |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Leu | Ala | Glu | Ser | Ser | Asp | Asp | Asn | Asn | Thr | Lys | Glu | Leu | Glu | Ala | Ala |
|     |     |     | 420 |     |     |     |     |     | 425 |     |     |     |     | 430 |     |
| Leu | Asp | Ile | Ser | Lys | Asn | Ile | Ala | Arg | Ser | Ile | Asn | Glu | Asn | Gln | Arg |
|     |     |     | 435 |     |     |     | 440 |     |     |     |     |     |     | 445 |     |
| Arg | Thr | Glu | Asn | His | Gln | Val | Val | Lys | Lys | Leu | Tyr | Gly | Arg | Val | Val |
|     |     |     | 450 |     |     |     | 455 |     |     |     |     |     |     | 460 |     |
| Asn | Trp | Lys | Gly | Tyr | Arg | Ile | Ser | Lys | Phe | Gly | Glu | Leu | Leu | Tyr | Phe |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Asp | Lys | Val | Phe | Ile | Ser | Thr | Thr | Asn | Ser | Ser | Ser | Glu | Pro | Glu | Arg |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     |     | 495 |
| Glu | Phe | Glu | Val | Tyr | Leu | Phe | Glu | Lys | Ile | Ile | Ile | Leu | Phe | Ser | Glu |
|     |     |     | 500 |     |     |     |     | 505 |     |     |     |     |     | 510 |     |
| Val | Val | Thr | Lys | Lys | Ser | Ala | Ser | Ser | Leu | Ile | Leu | Lys | Lys | Lys | Ser |
|     |     |     | 515 |     |     |     |     | 520 |     |     |     |     |     | 525 |     |
| Ser | Thr | Ser | Ala | Ser | Ile | Ser | Ala | Ser | Asn | Ile | Thr | Asp | Asn | Asn | Gly |
|     |     |     | 530 |     |     |     | 535 |     |     |     |     | 540 |     |     |     |
| Ser | Pro | His | His | Ser | Tyr | His | Lys | Arg | His | Ser | Asn | Ser | Ser | Ser | Ser |
| 545 |     |     |     |     | 550 |     |     |     |     | 555 |     |     |     |     | 560 |
| Asn | Asn | Ile | His | Leu | Ser | Ser | Ser | Ser | Ala | Ala | Ala | Ile | Ile | His | Ser |
|     |     |     |     | 565 |     |     |     |     | 570 |     |     |     |     |     | 575 |
| Ser | Thr | Asn | Ser | Ser | Asp | Asn | Asn | Ser | Asn | Asn | Ser | Ser | Ser | Ser | Ser |
|     |     |     | 580 |     |     |     |     | 585 |     |     |     |     |     | 590 |     |
| Leu | Phe | Lys | Leu | Ser | Ala | Asn | Glu | Pro | Lys | Leu | Asp | Leu | Arg | Gly | Arg |
|     |     |     | 595 |     |     |     | 600 |     |     |     |     |     |     | 605 |     |
| Ile | Met | Ile | Met | Asn | Leu | Asn | Gln | Ile | Ile | Pro | Gln | Asn | Asn | Arg | Ser |
| 610 |     |     |     |     |     | 615 |     |     |     |     | 620 |     |     |     |     |
| Leu | Asn | Ile | Thr | Trp | Glu | Ser | Ile | Lys | Glu | Gln | Gly | Asn | Phe | Leu | Leu |
| 625 |     |     |     |     | 630 |     |     |     |     | 635 |     |     |     |     | 640 |
| Lys | Phe | Lys | Asn | Glu | Glu | Thr | Arg | Asp | Asn | Trp | Ser | Ser | Cys | Leu | Gln |
|     |     |     |     | 645 |     |     |     |     | 650 |     |     |     |     |     | 655 |
| Gln | Leu | Ile | His | Asp | Leu | Lys | Asn | Glu | Gln | Phe | Lys | Ala | Arg | His | His |
|     |     |     | 660 |     |     |     |     | 665 |     |     |     |     |     | 670 |     |
| Ser | Ser | Thr | Ser | Thr | Thr | Ser | Ser | Thr | Ala | Lys | Ser | Ser | Ser | Met | Met |
|     |     |     | 675 |     |     |     |     | 680 |     |     |     |     |     | 685 |     |
| Ser | Pro | Thr | Thr | Thr | Met | Asn | Thr | Pro | Asn | His | His | Asn | Ser | Arg | Gln |
|     |     |     |     |     | 690 |     | 695 |     |     |     | 700 |     |     |     |     |
| Thr | His | Asp | Ser | Met | Ala | Ser | Phe | Ser | Ser | Ser | His | Met | Lys | Arg | Val |
| 705 |     |     |     |     | 710 |     |     |     |     | 715 |     |     |     |     | 720 |
| Ser | Asp | Val | Leu | Pro | Lys | Arg | Arg | Thr | Thr | Ser | Ser | Ser | Phe | Glu | Ser |
|     |     |     |     | 725 |     |     |     |     | 730 |     |     |     |     |     | 735 |
| Glu | Ile | Lys | Ser | Ile | Ser | Glu | Asn | Phe | Lys | Asn | Ser | Ile | Pro | Glu | Ser |
|     |     |     | 740 |     |     |     |     | 745 |     |     |     |     |     | 750 |     |
| Ser | Ile | Leu | Phe | Arg | Ile | Ser | Tyr | Asn | Asn | Asn | Ser | Asn | Asn | Thr | Ser |
|     |     |     | 755 |     |     |     | 760 |     |     |     |     |     |     | 765 |     |
| Ser | Ser | Glu | Ile | Phe | Thr | Leu | Leu | Val | Glu | Lys | Val | Trp | Asn | Phe | Asp |
|     |     |     |     |     | 770 |     | 775 |     |     |     |     |     |     | 780 |     |
| Asp | Leu | Ile | Met | Ala | Ile | Asn | Ser | Lys | Ile | Ser | Asn | Thr | His | Asn | Asn |
| 785 |     |     |     |     | 790 |     |     |     |     | 795 |     |     |     |     | 800 |
| Asn | Ile | Ser | Pro | Ile | Thr | Lys | Ile | Lys | Tyr | Gln | Asp | Glu | Asp | Gly | Asp |
|     |     |     |     | 805 |     |     |     |     | 810 |     |     |     |     |     | 815 |
| Phe | Val | Val | Leu | Gly | Ser | Asp | Glu | Asp | Trp | Asn | Val | Ala | Lys | Glu | Met |
|     |     |     | 820 |     |     |     |     | 825 |     |     |     |     |     | 830 |     |
| Leu | Ala | Glu | Asn | Asn |     |     |     |     |     |     |     |     |     |     |     |

<210> 29  
 <211> 813  
 <212> PRT  
 <213> Candida albicans

<400> 29  
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 Pro Lys Asp His Leu Phe Tyr Arg Cys Glu Ser Leu Lys Arg Lys Leu  
 35 40 45  
 Gln Lys Ile Pro Gly Met Glu Pro Phe Leu Asn Gln Ala Phe Asn Gln  
 50 55 60  
 Ala Glu Gln Leu Ser Glu Gln Gln Ala Leu Ala Leu Ala Gln Glu Arg  
 65 70 75 80  
 Ser Asn Gly Asn Gly His Ser Asn Gly Lys Arg His Gln Ser Leu Asp  
 85 90 95  
 Gly Ala Met Asn Arg Leu Ser Val Gly Ser Asp Ser Ser Ser Ile Gln  
 100 105 110  
 Gly Ser Leu Thr Arg Met Ala Thr Asn Ala Ser Thr Ser Ser Leu Ile  
 115 120 125  
 Ser Gly Met Pro Asn Asn Asn Thr Leu Phe Thr Phe Thr Ala Gly Val  
 130 135 140  
 Leu Pro Ala Asn Ile Ser Val Asp Pro Ala Thr His Leu Trp Lys Leu  
 145 150 155 160  
 Phe Gln Gln Gly Ala Pro Phe Cys Val Leu Ile Asn His Ile Leu Pro  
 165 170 175  
 Asp Ser Gln Ile Pro Val Val Ser Ser Asp Asp Leu Arg Ile Cys Lys  
 180 185 190  
 Lys Ser Val Tyr Asp Phe Leu Ile Ala Val Lys Thr Gln Leu Asn Phe  
 195 200 205  
 Asp Asp Glu Asn Met Phe Thr Ile Ser Asn Val Phe Ser Asp Asn Ala  
 210 215 220  
 Gln Asp Leu Ile Lys Ile Ile Asp Val Ile Asn Lys Leu Leu Ala Glu  
 225 230 235 240  
 Tyr Ser Asp Ala Ser Asp Ser Gly Gly Gly Asp Glu Asp Val Asn Met  
 245 250 255  
 Asp Val Gln Ile Thr Asp Glu Arg Ser Lys Val Phe Arg Glu Ile Ile  
 260 265 270  
 Glu Thr Glu Arg Lys Tyr Val Gln Asp Leu Glu Leu Met Cys Lys Tyr  
 275 280 285  
 Arg Gln Asp Leu Ile Glu Ala Glu Asn Leu Ser Ser Glu Gln Ile His  
 290 295 300  
 Leu Leu Phe Pro Asn Leu Asn Glu Ile Ile Asp Phe Gln Arg Arg Phe  
 305 310 315 320  
 Leu Asn Gly Leu Glu Cys Asn Ile Asn Val Pro Ile Arg Tyr Gln Arg  
 325 330 335  
 Ile Gly Ser Val Phe Ile His Ala Ser Leu Gly Pro Phe Asn Ala Tyr  
 340 345 350  
 Glu Pro Trp Thr Ile Gly Gln Leu Thr Ala Ile Asp Leu Ile Asn Lys  
 355 360 365  
 Glu Ala Ala Asn Leu Lys Lys Ser Ser Ser Leu Leu Asp Pro Gly Phe  
 370 375 380

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Leu | Gln | Ser | Tyr | Ile | Leu | Lys | Pro | Ile | Gln | Arg | Leu | Cys | Lys | Tyr | 385 | 390 | 395 | 400 |
| Pro | Leu | Leu | Leu | Lys | Glu | Leu | Ile | Lys | Thr | Ser | Pro | Glu | Tyr | Ser | Lys |     | 405 | 410 | 415 |
| Gln | Asp | Pro | His | Gly | Ser | Ser | Ser | Ser | Thr | Ser | Phe | Asn | Glu | Leu | Leu |     | 420 | 425 | 430 |
| Val | Ala | Lys | Thr | Ala | Met | Lys | Glu | Leu | Ala | Asn | Gln | Val | Asn | Glu | Ala |     | 435 | 440 | 445 |
| Gln | Arg | Arg | Ala | Glu | Asn | Ile | Glu | His | Leu | Glu | Lys | Leu | Lys | Glu | Arg |     | 450 | 455 | 460 |
| Val | Gly | Asn | Trp | Arg | Gly | Phe | Asn | Leu | Asp | Ala | Gln | Gly | Glu | Leu | Leu |     | 465 | 470 | 475 |
| Phe | His | Gly | Gln | Val | Gly | Val | Lys | Asp | Ala | Glu | Asn | Glu | Lys | Glu | Tyr |     | 485 | 490 | 495 |
| Val | Ala | Tyr | Leu | Phe | Glu | Lys | Ile | Val | Phe | Phe | Phe | Thr | Glu | Ile | Asp |     | 500 | 505 | 510 |
| Asp | Thr | Lys | Lys | Ser | Asp | Lys | Gln | Glu | Lys | Lys | Ser | Lys | Phe | Ser | Thr |     | 515 | 520 | 525 |
| Arg | Lys | Arg | Ser | Thr | Ser | Ser | Asn | Leu | Ser | Ser | Ser | Thr | Thr | Asn | Leu |     | 530 | 535 | 540 |
| Leu | Glu | Ser | Ile | Asn | Asn | Ser | Arg | Lys | Asp | Asn | Thr | Leu | Pro | Leu | Glu |     | 545 | 550 | 555 |
| Leu | Lys | Gly | Arg | Val | Tyr | Ile | Ser | Glu | Ile | Tyr | Asn | Ile | Ser | Ala | Pro |     | 565 | 570 | 575 |
| Asn | Thr | Pro | Gly | Ser | Thr | Leu | Ile | Ile | Ser | Trp | Ser | Gly | Arg | Lys | Glu |     | 580 | 585 | 590 |
| Ser | Gly | Ser | Phe | Thr | Leu | Arg | Tyr | Arg | Ser | Glu | Glu | Ala | Arg | Asn | Gln |     | 595 | 600 | 605 |
| Trp | Glu | Lys | Cys | Leu | Arg | Asp | Leu | Lys | Thr | Asn | Glu | Met | Asn | Lys | Gln |     | 610 | 615 | 620 |
| Ile | His | Lys | Lys | Leu | Arg | Asp | Ser | Asp | Ser | Ser | Phe | Asn | Thr | Asp | Asp |     | 625 | 630 | 635 |
| Ser | Ala | Ile | Tyr | Asp | Tyr | Thr | Gly | Ile | Ser | Thr | Ser | Pro | Val | Asn | Gln |     | 645 | 650 | 655 |
| Ser | Thr | Gln | Gln | Gln | Tyr | Tyr | Asp | His | Arg | Gly | Ser | His | Ser | Ser | Arg |     | 660 | 665 | 670 |
| His | His | Ser | Ser | Ser | Ser | Thr | Leu | Ser | Met | Met | Lys | Asn | Asn | Arg | Val |     | 675 | 680 | 685 |
| Lys | Ser | Gly | Asp | Leu | Ser | Arg | Ile | Ser | Ser | Thr | Ser | Thr | Thr | Leu | Asp |     | 690 | 695 | 700 |
| Ser | Phe | Ser | Asn | Asn | Leu | Asn | Gly | Ser | Pro | Asn | Thr | Thr | Asn | Pro | Ser |     | 705 | 710 | 715 |
| Leu | Met | Ser | Ser | Asp | Ala | Thr | Lys | Thr | Ile | Pro | Thr | Phe | Asp | Val | Ala |     | 725 | 730 | 735 |
| Ile | Lys | Leu | Leu | Tyr | Lys | Ser | Thr | Glu | Leu | Ser | Glu | Pro | Leu | Ile | Val |     | 740 | 745 | 750 |
| Asn | Ala | Gln | Ile | Glu | Tyr | Asn | Asp | Leu | Leu | Gln | Lys | Ile | Ile | Ser | Gln |     | 755 | 760 | 765 |
| Ile | Ile | Thr | Ser | Asn | Leu | Val | Ala | Asp | Asp | Val | Asn | Ile | Ser | Arg | Leu |     | 770 | 775 | 780 |
| Arg | Tyr | Lys | Asp | Asp | Glu | Gly | Asp | Phe | Val | Asn | Leu | Asn | Ser | Asp | Asp |     | 785 | 790 | 795 |
| Asp | Trp | Gly | Leu | Val | Leu | Asp | Met | Leu | Thr | Ser | Glu | Asp |     |     |     |     | 805 | 810 |     |

<210> 30

<211> 684  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<400> 30

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Pro | Val | Thr | Gln | Leu | Ser | Gln | Leu | Phe | Gln | Gln | Gly | Ala | Pro | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Cys | Ile | Leu | Phe | Asn | Ser | Val | Lys | Pro | Gln | Phe | Lys | Leu | Pro | Val | Ile |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ala | Ser | Asp | Asp | Leu | Lys | Val | Cys | Lys | Lys | Ser | Ile | Tyr | Asp | Phe | Ile |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Leu | Gly | Cys | Lys | Lys | His | Phe | Ala | Phe | Asn | Asp | Glu | Glu | Leu | Phe | Thr |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ile | Ser | Asp | Val | Phe | Ala | Asn | Ser | Thr | Ser | Gln | Leu | Val | Lys | Val | Leu |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Glu | Val | Val | Glu | Thr | Leu | Met | Asn | Ser | Ser | Pro | Thr | Ile | Phe | Pro | Ser |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Lys | Ser | Lys | Thr | Gln | Gln | Ile | Met | Asn | Ala | Glu | Asn | Gln | His | Arg | His |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Gln | Pro | Gln | Gln | Ser | Ser | Lys | Lys | His | Asn | Glu | Tyr | Val | Lys | Ile | Ile |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Lys | Glu | Phe | Val | Ala | Thr | Glu | Arg | Lys | Tyr | Val | His | Asp | Leu | Glu | Ile |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | Asp | Lys | Tyr | Arg | Gln | Gln | Leu | Leu | Asp | Ser | Asn | Leu | Ile | Thr | Ser |
| 145 |     |     |     |     | 150 |     |     |     | 155 |     |     |     |     |     | 160 |
| Glu | Glu | Leu | Tyr | Met | Leu | Phe | Pro | Asn | Leu | Gly | Asp | Ala | Ile | Asp | Phe |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Gln | Arg | Arg | Phe | Leu | Ile | Ser | Leu | Glu | Ile | Asn | Ala | Leu | Val | Glu | Pro |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ser | Lys | Gln | Arg | Ile | Gly | Ala | Leu | Phe | Met | His | Ser | Lys | His | Phe | Phe |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Lys | Leu | Tyr | Glu | Pro | Trp | Ser | Ile | Gly | Gln | Asn | Ala | Ala | Ile | Glu | Phe |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Leu | Ser | Ser | Thr | Leu | His | Lys | Met | Arg | Val | Asp | Glu | Ser | Gln | Arg | Phe |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Ile | Ile | Asn | Asn | Lys | Leu | Glu | Leu | Gln | Ser | Phe | Leu | Tyr | Lys | Pro | Val |
|     |     |     |     | 245 |     |     |     | 250 |     |     |     |     |     | 255 |     |
| Gln | Arg | Leu | Cys | Arg | Tyr | Pro | Leu | Leu | Val | Lys | Glu | Leu | Leu | Ala | Glu |
|     |     |     | 260 |     |     |     | 265 |     |     |     |     |     | 270 |     |     |
| Ser | Ser | Asp | Asp | Asn | Asn | Thr | Lys | Glu | Leu | Glu | Ala | Ala | Leu | Asp | Ile |
|     |     | 275 |     |     |     | 280 |     |     |     |     |     | 285 |     |     |     |
| Ser | Lys | Asn | Ile | Ala | Arg | Ser | Ile | Asn | Glu | Asn | Gln | Arg | Arg | Thr | Glu |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Asn | His | Gln | Val | Val | Lys | Lys | Leu | Tyr | Gly | Arg | Val | Val | Asn | Trp | Lys |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Gly | Tyr | Arg | Ile | Ser | Lys | Phe | Gly | Glu | Leu | Leu | Tyr | Phe | Asp | Lys | Val |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Phe | Ile | Ser | Thr | Thr | Asn | Ser | Ser | Ser | Glu | Pro | Glu | Arg | Glu | Phe | Glu |
|     |     |     | 340 |     |     |     | 345 |     |     |     |     |     | 350 |     |     |
| Val | Tyr | Leu | Phe | Glu | Lys | Ile | Ile | Ile | Leu | Phe | Ser | Glu | Val | Val | Thr |
|     |     | 355 |     |     |     | 360 |     |     |     |     |     | 365 |     |     |     |
| Lys | Lys | Ser | Ala | Ser | Ser | Leu | Ile | Leu | Lys | Lys | Lys | Ser | Ser | Thr | Ser |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Ala | Ser | Ile | Ser | Ala | Ser | Asn | Ile | Thr | Asp | Asn | Asn | Gly | Ser | Pro | His |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| His | Ser | Tyr | His | Lys | Arg | His | Ser | Asn | Ser | Ser | Ser | Ser | Asn | Asn | Ile |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Leu | Ser | Ser | Ser | Ser | Ala | Ala | Ala | Ile | Ile | His | Ser | Ser | Thr | Asn |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Ser | Ser | Asp | Asn | Asn | Ser | Asn | Asn | Ser | Ser | Ser | Ser | Ser | Leu | Phe | Lys |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Leu | Ser | Ala | Asn | Glu | Pro | Lys | Leu | Asp | Leu | Arg | Gly | Arg | Ile | Met | Ile |
|     |     | 450 |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Met | Asn | Leu | Asn | Gln | Ile | Ile | Pro | Gln | Asn | Asn | Arg | Ser | Leu | Asn | Ile |
|     |     | 465 |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Thr | Trp | Glu | Ser | Ile | Lys | Glu | Gln | Gly | Asn | Phe | Leu | Leu | Lys | Phe | Lys |
|     |     |     | 485 |     |     |     |     |     | 490 |     |     |     |     |     | 495 |
| Asn | Glu | Glu | Thr | Arg | Asp | Asn | Trp | Ser | Ser | Cys | Leu | Gln | Gln | Leu | Ile |
|     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |     |     |
| His | Asp | Leu | Lys | Asn | Glu | Gln | Phe | Lys | Ala | Arg | His | His | Ser | Ser | Thr |
|     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |     |     |     |
| Ser | Thr | Thr | Ser | Ser | Thr | Ala | Lys | Ser | Ser | Ser | Met | Met | Ser | Pro | Thr |
|     |     | 530 |     |     |     | 535 |     |     |     |     | 540 |     |     |     |     |
| Thr | Thr | Met | Asn | Thr | Pro | Asn | His | His | Asn | Ser | Arg | Gln | Thr | His | Asp |
|     |     | 545 |     |     | 550 |     |     |     |     | 555 |     |     |     |     | 560 |
| Ser | Met | Ala | Ser | Phe | Ser | Ser | Ser | His | Met | Lys | Arg | Val | Ser | Asp | Val |
|     |     |     | 565 |     |     |     |     |     | 570 |     |     |     |     | 575 |     |
| Leu | Pro | Lys | Arg | Arg | Thr | Thr | Ser | Ser | Ser | Phe | Glu | Ser | Glu | Ile | Lys |
|     |     |     | 580 |     |     |     |     | 585 |     |     |     |     | 590 |     |     |
| Ser | Ile | Ser | Glu | Asn | Phe | Lys | Asn | Ser | Ile | Pro | Glu | Ser | Ser | Ile | Leu |
|     |     | 595 |     |     |     |     | 600 |     |     |     |     | 605 |     |     |     |
| Phe | Arg | Ile | Ser | Tyr | Asn | Asn | Asn | Ser | Asn | Asn | Thr | Ser | Ser | Ser | Glu |
|     | 610 |     |     |     | 615 |     |     |     |     |     | 620 |     |     |     |     |
| Ile | Phe | Thr | Leu | Leu | Val | Glu | Lys | Val | Trp | Asn | Phe | Asp | Asp | Leu | Ile |
|     | 625 |     |     |     | 630 |     |     |     |     | 635 |     |     |     |     | 640 |
| Met | Ala | Ile | Asn | Ser | Lys | Ile | Ser | Asn | Thr | His | Asn | Asn | Asn | Ile | Ser |
|     |     |     | 645 |     |     |     |     |     | 650 |     |     |     |     | 655 |     |
| Pro | Ile | Thr | Lys | Ile | Lys | Tyr | Gln | Asp | Glu | Asp | Gly | Asp | Phe | Val | Val |
|     |     |     | 660 |     |     |     |     | 665 |     |     |     |     | 670 |     |     |
| Leu | Gly | Ser | Asp | Glu | Asp | Trp | Asn | Val | Ala | Lys | Glu |     |     |     |     |
|     |     | 675 |     |     |     |     | 680 |     |     |     |     |     |     |     |     |

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 <212> PRT  
 <213> Schizosaccharomyces pombe

|          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> 31 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Asp      | Pro | Val | Thr | Glu | Ile | Trp | Leu | Phe | Cys | Arg | Leu | Gly | Tyr | Pro | Leu |
| 1        |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Cys      | Ala | Leu | Phe | Asn | Cys | Leu | Pro | Val | Lys | Gln | Lys | Leu | Glu | Val | Asn |
|          |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ser      | Ser | Val | Ser | Leu | Glu | Asn | Thr | Asn | Val | Cys | Lys | Ala | Ser | Leu | Tyr |
|          |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Arg      | Phe | Met | Leu | Met | Cys | Lys | Asn | Glu | Leu | Gly | Leu | Thr | Asp | Ala | Ala |
|          | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| Leu      | Phe | Ser | Ile | Ser | Glu | Ile | Tyr | Lys | Pro | Ser | Thr | Ala | Pro | Leu | Val |
|          | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Arg      | Ala | Leu | Gln | Thr | Ile | Glu | Leu | Leu | Leu | Lys | Lys | Tyr | Glu | Val | Ser |
|          |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Asn      | Thr | Thr | Lys | Ser | Ser | Ser | Thr | Pro | Ser | Pro | Ser | Thr | Asp | Asp | Asn |
|          |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Val      | Pro | Thr | Gly | Thr | Leu | Asn | Ser | Leu | Ile | Ala | Ser | Gly | Arg | Arg | Val |



Leu Leu Asn Asp Tyr Asn Tyr Asn Arg Gln Ser His Ile Thr Arg Val  
                   580                                  585                                  590  
 Tyr Ser Gly Thr Asp Asp Gly Ser Ser Val Ser Ile Phe Glu Asp Thr  
                   595                                  600                                  605  
 Ser Ser Ser Thr Lys Gln Lys Ile Phe Asp Gln Pro Thr Thr Asn Asp  
                   610                                  615                                  620  
 Cys Asp Val Met Arg Pro Arg Gln Tyr Ser Tyr Ser Ala Gly Met Lys  
                   625                                  630                                  635                                  640  
 Ser Asp Gly Ser Leu Leu Pro Ser Thr Lys His Thr Ser Leu Ser Ser  
                                   645                                  650                                  655  
 Ser Ser Thr Ser Thr Ser Leu Ser Val Arg Asn Thr Thr Asn Val Lys  
                                   660                                  665                                  670  
 Ile Arg Leu Arg Leu His Glu Val Ser Leu Val Leu Val Val Ala His  
                   675                                  680                                  685  
 Asp Ile Thr Phe Asp Glu Leu Leu Ala Lys Val Glu His Lys Ile Lys  
                   690                                  695                                  700  
 Leu Cys Gly Ile Leu Lys Gln Ala Val Pro Phe Arg Val Arg Leu Lys  
                   705                                  710                                  715                                  720  
 Tyr Val Asp Glu Asp Gly Asp Phe Ile Thr Ile Thr Ser Asp Glu Asp  
                                   725                                  730                                  735  
 Val Leu Met Ala Phe Glu  
                                   740

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20

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18

<210> 34  
<211> 76  
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<213> Candida albicans

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Pro Phe Cys Val Leu Ile Asn His Ile Leu Pro Asp Ser Gln Ile Pro  
1 5 10 15  
Val Val Ser Ser Asp Asp Leu Arg Ile Cys Lys Lys Ser Val Tyr Asp  
20 25 30  
Phe Leu Ile Ala Val Lys Thr Gln Leu Asn Phe Asp Asp Glu Asn Met  
35 40 45  
Phe Thr Ile Ser Asn Val Phe Ser Asp Asn Ala Gln Asp Leu Ile Lys  
50 55 60  
Ile Ile Asp Val Ile Asn Lys Leu Leu Ala Glu Tyr  
65 70 75

<210> 35  
<211> 19  
<212> PRT  
<213> Candida albicans

<400> 35  
Asp Ser Gln Ile Pro Val Val Ser Ser Asp Asp Leu Arg Ile Cys Lys  
1 5 10 15  
Lys Ser Val

<210> 36  
<211> 73

<212> PRT

<213> *Candida albicans*

<400> 36

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Pro Phe Cys Val Leu Ile Asn His Ile Leu Pro Asp Ser Gln Ile Pro
 1           5           10           15
Val Val Ser Ser Asp Asp Leu Arg Ile Cys Lys Lys Ser Val Tyr Asp
      20           25           30
Phe Leu Ile Ala Val Lys Thr Gln Leu Asn Phe Asp Asp Glu Asn Met
      35           40           45
Phe Thr Ile Ser Asn Val Phe Ser Asp Asn Ala Gln Asp Leu Ile Lys
      50           55           60
Ile Ile Asp Val Ile Asn Lys Leu Leu
65           70
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<210> 37

<211> 73

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 37

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Pro Leu Cys Ile Leu Phe Asn Ser Val Lys Pro Gln Phe Lys Leu Pro
 1           5           10           15
Val Ile Ala Ser Asp Asp Leu Lys Val Cys Lys Lys Ser Ile Tyr Asp
      20           25           30
Phe Ile Leu Gly Cys Lys Lys His Phe Ala Phe Asn Asp Glu Glu Leu
      35           40           45
Phe Thr Ile Ser Asp Val Phe Ala Asn Ser Thr Ser Gln Leu Val Lys
      50           55           60
Val Leu Glu Val Val Glu Thr Leu Met
65           70
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